

CLAIMS

What is claimed is:

1. A prefabricated building assembly for construction of a low cost building
5 comprising:
a plurality of exterior Styrofoam wall panels;
a plurality of exterior Styrofoam connection blocks, said plurality of exterior
connected to said plurality of exterior wall panels to form an exterior wall of a
building;
10 a plurality of Styrofoam roof panels, said plurality of roof panels joined together
forming a roof of the building; and
said walls having channels that receive cementitious material and rebar to anchor
the exterior walls and roof together for structural rigidity.
2. The prefabricated building assembly according to claim 1, said plurality of exterior
15 wall panels each including at least one male protruding interlocking edge, said at
least one interlocking edge provides an appendage for inserting an exterior
connection block.
3. The prefabricated building assembly according to claim 2, said plurality of exterior
20 wall panels each including at least one connection slot which receives a connecting
exterior wall panel to provide for vertical stacking of said plurality of exterior wall
panels.

4. The prefabricated building assembly according to claim 1, where said plurality of exterior walls includes a top portion which is angled for roof engagement with a pitched roof.
5. The prefabricated building assembly according to claim 2, where said plurality of exterior connection blocks includes at least one H block, said at least one H block including two channels, said two channels capable of receiving said at least one interlocking edge.
6. The prefabricated building assembly according to claim 5, wherein said at least one H block includes an orifice extending through the length of the at least one H block.
7. The prefabricated building assembly according to claim 6, wherein said orifice is substantially rectangular.
8. The prefabricated building assembly according to claim 6, wherein said orifice is substantially cylindrical.
9. The prefabricated building assembly according to claim 2, where said plurality of exterior connection blocks includes at least one corner block, the at least one corner block including two channels on two adjacent sides of said corner block, said two channels capable of receiving said at least one interlocking edge.
10. The prefabricated building assembly according to claim 9, where said at least one corner block includes an orifice extending through the length of the at least one corner block.

11. The prefabricated building assembly according to claim 10, where the orifice is substantially rectangular.
12. The prefabricated building assembly according to claim 2, where said plurality of exterior connection blocks includes at least one four way block, the at least one
5 four way block including channels on each side of said four way block, said channels capable of receiving said at least one interlocking edge and a channel for cementitious material.
13. The prefabricated building assembly according to claim 12, where said at least one
10 four way block includes an orifice extending through the length of the at least one four way block.
14. The prefabricated building assembly according to claim 10, where the orifice is substantially rectangular.
15. The prefabricated building assembly according to claim 2, where said plurality of exterior connection blocks includes at least one three way block, the at least one
15 three way block including channels on each side of said three way block, said channels capable of receiving said at least one interlocking edge..
16. The prefabricated building assembly according to claim 15, where said at least one three way block includes an orifice extending through the length of the at least one three way block.
- 20 17. The prefabricated building assembly according to claim 16, where the orifice is substantially rectangular.

18. The prefabricated building assembly according to claim 1, where said plurality of exterior wall panels are about 8 feet in height and vary in length.
19. The prefabricated building assembly according to claim 1, where said plurality of roof panels each include a plurality of parallel roof connection slots.
- 5 20. The prefabricated building assembly according to claim 1, further comprising:
an interior connection piece, where each interior wall panel includes channels, said channels providing a means for the insertion of the interior connection piece.
21. A prefabricated building assembly providing a means for construction of a building comprising:
- 10 a plurality of light weight foam exterior wall panels;
a plurality of exterior connection blocks, the plurality of exterior connection blocks being capable of joining the plurality of exterior wall panels that form an exterior wall of the building and providing substantial reinforcement stability for said exterior wall panels;
- 15 a plurality of roof panels, the plurality of roof panels forming a roof of the building;
a plurality of interior wall panels; and
a plurality of interior connection blocks where the plurality of interior connection blocks being capable of joining the plurality of interior wall panels that form at
- 20 least one interior wall of the building and providing substantial reinforcement stability for said exterior wall panels, wherein said exterior wall panels, exterior

connection blocks, roof panels, interior wall panels and interior connection blocks are made of a polymer.

22. The prefabricated building assembly according to claim 21, where the polymer is at least one of polystyrene and polyurethane.

5 23. The prefabricated building assembly according to claim 21, where the exterior panels receive a coating.

24. The prefabricated building assembly according to claim 23, where the coating is a cementitious material.

10 25. The prefabricated building assembly according to claim 23, where the coating is polyurea.